

GEL-CONTAINING RUBBER COMPOUNDS
FOR TIRE COMPONENTS SUBJECTED TO DYNAMIC STRESS

ABSTRACT OF THE DISCLOSURE

The invention concerns rubber compounds consisting of at least one double bond-containing rubber and additions of polybutadiene rubber particles having a glass transition temperature $< -60^{\circ}\text{C}$ together with vulcanizates and rubber mouldings manufactured therefrom.

The rubber compounds according to the invention are characterized in the un-crosslinked state by good processability and adequate scorch resistance and in the vulcanized state by high Shore A hardness, high impact resistance, low hysteresis losses and low heating-up under dynamic stress, together with a low specific density.

The vulcanizates are particularly suitable for the manufacture of tire components for which low heating-up under dynamic stress is required, e.g. for tire bead and apex compounds, subtread compounds, tire carcasses and for tire sidewalls. The compounds are particularly suitable for the manufacture of reinforced sidewalls for tires with emergency running properties (inserts for run-flat tires).

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